

V. PORTNER  
09/512082

1645

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/512,082DATE: 09/14/2000  
TIME: 12:42:01Input Set : A:\Sch17332.app  
Output Set: N:\CRF3\09142000\I512082.raw

3 <110> APPLICANT: NERI, Dario  
 4 TARLI, Lorenzo  
 5 VITI, Francesca  
 6 BIRCHLER, Manfred  
 8 <120> TITLE OF INVENTION: SPECIFIC BINDING MOLECULES FOR SCINTIGRAPHY, CONJUGATES  
 9 CONTAINING THEM AND THERAPEUTIC METHOD FOR TREATMENT OF  
 10 ANGIOGENESIS  
 12 <130> FILE REFERENCE: SCH-1733P2  
 14 <140> CURRENT APPLICATION NUMBER: 09/512,082  
 15 <141> CURRENT FILING DATE: 2000-02-24  
 17 <150> PRIOR APPLICATION NUMBER: 09/300,425  
 18 <151> PRIOR FILING DATE: 1999-04-28  
 20 <150> PRIOR APPLICATION NUMBER: 09/075,338  
 21 <151> PRIOR FILING DATE: 1998-05-11  
 23 <160> NUMBER OF SEQ ID NOS: 34  
 25 <170> SOFTWARE: PatentIn Ver. 2.1  
 27 <210> SEQ ID NO: 1  
 28 <211> LENGTH: 24  
 29 <212> TYPE: DNA  
 30 <213> ORGANISM: Artificial Sequence  
 32 <220> FEATURE:  
 33 <223> OTHER INFORMATION: Description of Artificial Sequence: primer  
 35 <400> SEQUENCE: 1 24  
 36 gcggccagc cggccatggc cgag  
 39 <210> SEQ ID NO: 2  
 40 <211> LENGTH: 54  
 41 <212> TYPE: DNA  
 42 <213> ORGANISM: Artificial Sequence  
 44 <220> FEATURE:  
 45 <223> OTHER INFORMATION: Description of Artificial Sequence: primer  
 47 <220> FEATURE:  
 48 <223> OTHER INFORMATION: "n" at various positions throughout the sequence  
 49 represent a, t, c, g, other or unknown  
 51 <400> SEQUENCE: 2 54  
 52 gagcctggcg gacccagctc atmnmmnmn ngctaaaggt gaatccagag gctg  
 55 <210> SEQ ID NO: 3  
 56 <211> LENGTH: 23  
 57 <212> TYPE: DNA  
 58 <213> ORGANISM: Artificial Sequence  
 60 <220> FEATURE:  
 61 <223> OTHER INFORMATION: Description of Artificial Sequence: primer  
 63 <400> SEQUENCE: 3 23  
 64 atgagctggg tccgccaggc tcc  
 67 <210> SEQ ID NO: 4  
 68 <211> LENGTH: 60  
 69 <212> TYPE: DNA  
 70 <213> ORGANISM: Artificial Sequence

ENTERED

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/512,082

DATE: 09/14/2000  
 TIME: 12:42:01

Input Set : A:\Sch17332.app  
 Output Set: N:\CRF3\09142000\I512082.raw

72 <220> FEATURE:  
 73 <223> OTHER INFORMATION: Description of Artificial Sequence: primer  
 75 <220> FEATURE:  
 76 <223> OTHER INFORMATION: "n" at various positions throughout the sequence  
 77 represent a, t, c, g, other or unknown  
 79 <400> SEQUENCE: 4  
 80 gtcctgcgtag tatgtggtac cmnnactacc mnaatmmnt gagaccact ccagcccctt 60  
 83 <210> SEQ ID NO: 5  
 84 <211> LENGTH: 24  
 85 <212> TYPE: DNA  
 86 <213> ORGANISM: Artificial Sequence  
 88 <220> FEATURE:  
 89 <223> OTHER INFORMATION: Description of Artificial Sequence: primer  
 91 <400> SEQUENCE: 5 24  
 92 acatactacg cagactccgt gaag  
 95 <210> SEQ ID NO: 6  
 96 <211> LENGTH: 53  
 97 <212> TYPE: DNA  
 98 <213> ORGANISM: Artificial Sequence  
 100 <220> FEATURE:  
 101 <223> OTHER INFORMATION: Description of Artificial Sequence: primer  
 103 <400> SEQUENCE: 6 53  
 104 tcattctcga cttgcggccg ctttgatttc caccttggtc ctttgccga acg  
 107 <210> SEQ ID NO: 7  
 108 <211> LENGTH: 47  
 109 <212> TYPE: DNA  
 110 <213> ORGANISM: Artificial Sequence  
 112 <220> FEATURE:  
 113 <223> OTHER INFORMATION: Description of Artificial Sequence: primer  
 115 <220> FEATURE:  
 116 <223> OTHER INFORMATION: "n" at various positions throughout the sequence  
 117 represent a, t, c, g, other or unknown  
 119 <400> SEQUENCE: 7 47  
 120 gttttctgctg gtaccaggct aamngctgc tgctaact ctgactg  
 123 <210> SEQ ID NO: 8  
 124 <211> LENGTH: 23  
 125 <212> TYPE: DNA  
 126 <213> ORGANISM: Artificial Sequence  
 128 <220> FEATURE:  
 129 <223> OTHER INFORMATION: Description of Artificial Sequence: primer  
 131 <400> SEQUENCE: 8 23  
 132 ttagcctggt accagcagaa acc  
 135 <210> SEQ ID NO: 9  
 136 <211> LENGTH: 46  
 137 <212> TYPE: DNA  
 138 <213> ORGANISM: Artificial Sequence  
 140 <220> FEATURE:  
 141 <223> OTHER INFORMATION: Description of Artificial Sequence: primer  
 143 <220> FEATURE:

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/512,082  
 DATE: 09/14/2000  
 TIME: 12:42:01

Input Set : A:\Sch17332.app  
 Output Set: N:\CRF3\09142000\I512082.raw

144 <223> OTHER INFORMATION: "n" at various positions throughout the sequence  
 145 represent a, t, c, g, other or unknown  
 147 <400> SEQUENCE: 9 46  
 148 gccagtggcc ctgctggatg cmnnatagat gaggagcctg ggagcc  
 151 <210> SEQ ID NO: 10  
 152 <211> LENGTH: 21  
 153 <212> TYPE: DNA  
 154 <213> ORGANISM: Artificial Sequence  
 156 <220> FEATURE:  
 157 <223> OTHER INFORMATION: Description of Artificial Sequence: primer  
 159 <400> SEQUENCE: 10 21  
 160 gcatccagca gggccactgg c  
 163 <210> SEQ ID NO: 11  
 164 <211> LENGTH: 45  
 165 <212> TYPE: DNA  
 166 <213> ORGANISM: Artificial Sequence  
 168 <220> FEATURE:  
 169 <223> OTHER INFORMATION: Description of Artificial Sequence: primer  
 171 <400> SEQUENCE: 11 45  
 172 gcggcccagc atgccatggc cgaggtgcag ctgttgagct ctggg  
 175 <210> SEQ ID NO: 12  
 176 <211> LENGTH: 55  
 177 <212> TYPE: DNA  
 178 <213> ORGANISM: Artificial Sequence  
 180 <220> FEATURE:  
 181 <223> OTHER INFORMATION: Description of Artificial Sequence: primer  
 183 <220> FEATURE:  
 184 <223> OTHER INFORMATION: "n" at various positions throughout the sequence  
 185 represent a, t, c, g, other or unknown  
 187 <400> SEQUENCE: 12 55  
 188 gggtccctgg ccccgtagt caaamnnnnn mnnnnntttc gcacagtaat atacg  
 191 <210> SEQ ID NO: 13  
 192 <211> LENGTH: 24  
 193 <212> TYPE: DNA  
 194 <213> ORGANISM: Artificial Sequence  
 196 <220> FEATURE:  
 197 <223> OTHER INFORMATION: Description of Artificial Sequence: primer  
 199 <400> SEQUENCE: 13 24  
 200 gcggcccagc atgccatggc cgag  
 203 <210> SEQ ID NO: 14  
 204 <211> LENGTH: 66  
 205 <212> TYPE: DNA  
 206 <213> ORGANISM: Artificial Sequence  
 208 <220> FEATURE:  
 209 <223> OTHER INFORMATION: Description of Artificial Sequence: primer  
 211 <400> SEQUENCE: 14 60  
 212 cccgctaccg ccaactggacc catcgccact cgagacgggtg accaggggtc cctggcccca 66  
 213 gtagtc  
 216 <210> SEQ ID NO: 15

### RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/512,082

DATE: 09/14/2000

TIME: 12:42:01

Input Set : A:\Sch17332.app

Output Set: N:\CRF3\09142000\I512082.raw

```

217 <211> LENGTH: 62
218 <212> TYPE: DNA
219 <213> ORGANISM: Artificial Sequence
221 <220> FEATURE:
222 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
224 <400> SEQUENCE: 15
225 gatgggtcca gtggcggtag cgggggcgcg tcgactggcg aaattgtgtt gacgcagtct 60
226 cc
229 <210> SEQ ID NO: 16
230 <211> LENGTH: 63
231 <212> TYPE: DNA
232 <213> ORGANISM: Artificial Sequence
234 <220> FEATURE:
235 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
237 <220> FEATURE:
238 <223> OTHER INFORMATION: "n" at various positions throughout the sequence
239 represent a, t, c, g, other or unknown
241 <400> SEQUENCE: 16
242 caccttggtc ccttgccga acgtmnnccg mnnmnnaccm nntgctgac agtaatacac 60
243 tgc
246 <210> SEQ ID NO: 17
247 <211> LENGTH: 56
248 <212> TYPE: DNA
249 <213> ORGANISM: Artificial Sequence
251 <220> FEATURE:
252 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
254 <400> SEQUENCE: 17
255 gagtcatctc cgacttgccg ccgctttgat ttccaccttg gtcccttgcc cgaacg 56
258 <210> SEQ ID NO: 18
259 <211> LENGTH: 24
260 <212> TYPE: DNA
261 <213> ORGANISM: Artificial Sequence
263 <220> FEATURE:
264 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
266 <400> SEQUENCE: 18
267 gatgggtcca gtggcggtag cggg 24
270 <210> SEQ ID NO: 19
271 <211> LENGTH: 116
272 <212> TYPE: PRT
273 <213> ORGANISM: Artificial Sequence
275 <220> FEATURE:
276 <223> OTHER INFORMATION: Description of Artificial Sequence: H antibody specific
277 for ED-B domain of fibronectin
279 <400> SEQUENCE: 19
280 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
281 1 5 10 15
283 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Phe
284 20 25 30
286 Ser Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val

```

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/512,082

DATE: 09/14/2000  
 TIME: 12:42:01

Input Set : A:\Sch17332.app  
 Output Set: N:\CRF3\09142000\I512082.raw

```

287          35          40          45
289 Ser Ser Ile Ser Gly Ser Ser Gly Thr Thr Tyr Tyr Ala Asp Ser Val
290          50          55          60
292 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
293 65          70          75          80
295 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
296          85          90          95
298 Ala Lys Pro Phe Pro Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val
299          100          105          110
301 Thr Val Ser Ser
302          115
305 <210> SEQ ID NO: 20
306 <211> LENGTH: 14
307 <212> TYPE: PRT
308 <213> ORGANISM: Artificial Sequence
310 <220> FEATURE:
311 <223> OTHER INFORMATION: Description of Artificial Sequence: antibody linker
313 <400> SEQUENCE: 20
314 Gly Asp Gly Ser Ser Gly Gly Ser Gly Gly Ala Ser Thr Gly
315 1          5          10
318 <210> SEQ ID NO: 21
319 <211> LENGTH: 108
320 <212> TYPE: PRT
321 <213> ORGANISM: Artificial Sequence
323 <220> FEATURE:
324 <223> OTHER INFORMATION: Description of Artificial Sequence: VL antibody
325 specific for ED-B domain of fibronectin
327 <400> SEQUENCE: 21
328 Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
329 1          5          10          15
331 Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Ser
332          20          25          30
334 Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
335          35          40          45
337 Ile Tyr Tyr Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
338          50          55          60
340 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
341 65          70          75          80
343 Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Thr Gly Arg Ile Pro
344          85          90          95
346 Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
347          100          105
350 <210> SEQ ID NO: 22
351 <211> LENGTH: 16
352 <212> TYPE: PRT
353 <213> ORGANISM: Artificial Sequence
355 <220> FEATURE:
356 <223> OTHER INFORMATION: Description of Artificial Sequence: peptide formula
358 <400> SEQUENCE: 22

```

**Please Note:**  
 Use of n and/or Xaa have been detected in the Sequence Listing. Please review the  
 Sequence Listing to ensure that a corresponding explanation is presented in the <220> to  
 <223> fields of each sequence which presents at least one n or Xaa.

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/512,082

DATE: 09/14/2000

TIME: 12:42:02

Input Set : A:\Sch17332.app

Output Set: N:\CRF3\09142000\I512082.raw

L:52 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:2  
L:52 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2  
L:52 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:2  
L:80 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:4  
L:80 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:4  
L:80 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:4  
L:120 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:7  
L:120 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:7  
L:120 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:7  
L:148 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:9  
L:148 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:9  
L:148 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:9  
L:188 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:12  
L:188 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:12  
L:188 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:12  
L:242 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:16  
L:242 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:16  
L:242 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:16